PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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W0285WO		(day/month/gar)	Priority date (day/month/year)			
International application No. International filing date PCT/EP2004/010636 22.09.2004		s (day/monasyear)	01.10.2003			
		on (IPC) or national classification and	IPC			
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Applican	nt VALDACKAGING T	ECHNOLOGY INC. et al.				
CHOW	WIN PACKAGING T	EOI INOLOGI INO. et al.				
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2. T	and the state of t					
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а	a. Sent to the applicant and to the International Bureau) a total of 2 sheets, as follows:					
	and/or she	the description, claims and/or dra eets containing rectifications autho ative Instructions).	wings which have bee orized by this Authority	n amended and are the basis of this report (see Rule 70.16 and Section 607 of the		
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/010636

_	Box No. I Basis of the report			
 With regard to the language, this report is based on the international application in the language in whice filed, unless otherwise indicated under this item. 				
	 □ This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of: □ international search (under Rules 12.3 and 23.1(b)) 			
		tional application (under Rule 12.4) examination (under Rules 55.2 and/or 55.3)		
2.	With regard to the elements* of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):			
	Description, Pages			
	1-10	as originally filed		
	Claims, Numbers			
	1-8	received on 19.04.2005 with letter of 11.04.2005		
	Drawings, Sheets			
	1/4-4/4	as originally filed		
	☐ a sequence listing and/or ar	ny related table(s) - see Supplemental Box Relating to Sequence Listing		
3.	☐ The amendments have resu ☐ the description, pages ☐ the claims, Nos.	ulted in the cancellation of:		
	☐ the drawings, sheets/figs☐ the sequence listing (spe☐ any table(s) related to se	ecify):		
4.	This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).			
	☐ the description, pages ☐ the claims, Nos. ☐ the drawings, sheets/figs ☐ the sequence listing (specified any table(s) related to see	ecify):		
	• • • •	ome or all of these sheets may be marked "superseded."		

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/010636

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Inventive step (IS)

Yes: Claims

1-8

No: Claims

Yes: Claims

No: Claims

1-8

Industrial applicability (IA)

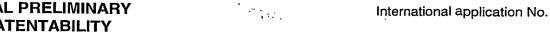
Yes: Claims

1-8

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet



INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

PCT/EP2004/010636

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Reference is made to the following document:

D1: US 6 325 226 B1 (KRAUTKRAMER GUNTER) 4 December 2001 (2001-12-04)

- 2. Novelty and inventive step:
- 2.1 Independent claim 1:

The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 does not involve an inventive step in the sense of Article 33(3) PCT.

The document US 6 325 226 B1 (D1) is regarded as being the closest prior art to the subject-matter of claim 1, and discloses (the references in parentheses applying to this document):

A plastics closure (fig. 2) for a container, the closure comprising a top plate (2), a side skirt (1) depending from the periphery of the top plate (2), a sealing strip (4) depending from the top plate (2) and adapted to sealingly engage a container neck finish, and an abutment member (5) including a projecting guide member for guiding the sealing strip (4) towards the neck finish as the closure is applied, so that the strength of the seal is increased, wherein the guide member contacts the sealing strip over a relatively small area so that the friction between the strip (4) and the abutment member (5) is minimised.

The subject-matter of claim 1 therefore differs from this known plastics closure in that:

the sealing strip is inclined radially towards the neck finish for improving the sealing effect.

The problem to be solved by the present invention may therefore be regarded as to improve the sealing effect in a plastics closure of the type claimed.

The solution proposed in claim 1 of the present application cannot be considered as involving an inventive step (Article 33(3) PCT) for the following reasons:

Feature "sealing strip (4)" which is described in the closest prior art document D1 provides the same advantages as in the present application (see col. 3, l. 9-14).

Therefore the feature "inclined radially towards the neck finish" of claim 1 is merely one of several straightforward possibilities from which the skilled person would select, in accordance with circumstances, without the exercise of inventive skill, in order to solve the problem posed.

2.2 Independent claim 8:

The same reasoning applies, mutatis mutandis, to the subject-matter of the corresponding independent claim 8, which therefore is also considered not inventive (Article 33(3) PCT).

2.3 Dependent claims 2-7:

Dependent claims 2-7 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step (Article 33(2) and (3) PCT).

All additional features of the claims 2-7 are disclosed in the closest prior art document D1 and are therefore not inventive as well (Article 33(3) PCT), see:

- for claims 2-4: D1: see sealing strip (4) in fig. 1a

- for claims 5, 6: D1: see sealing olive (3) in fig. 1a

- for claim 7: the additional feature of claim 7 is considered to be disclosed by

the prior art document D1 as well, i.e. "... adapted to seal on the inner surface of the neck finish".

However, claim 7 contradicts the embodiments disclosed in the description, thus resulting in lack of clarity (Article 6 PCT). No basis was found in the description for an embodiment wherein the sealing strip is adapted to seal on the inner surface of the neck finish whereby the sealing strip is simultaneously guided by an abutment member (combination of the claims 1 and 7).

3. <u>Industrial applicability:</u>

The industrial applicability of the claimed invention appears to be obvious so that the criterion set forth in Article 33(4) PCT is fulfilled.

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EPO - DG 1

CLAIMS:

19. 04. 2005

1. A plastics closure (10) for a contained the closure (10) comprising a top plate (15), a side skirt (20) depending from the periphery of the top plate (15), a sealing strip (45) depending from the top plate and adapted to sealingly engage the side of a container neck finish (75), and an abutment member (55) including a projecting guide member (65) for guiding the sealing strip (45) towards the neck finish (75) as the closure (10) is applied, so that the strength of the seal is increased, wherein the guide member contacts the sealing strip over a relatively small area so that the friction between the sealing strip (45) and the abutment member (55) is minimised,

characterised in that,

the sealing strip (45) is inclined radially towards the neck finish (75) for improving the sealing effect.

- 2. A closure according to claim 1, wherein the sealing strip (45) tapers slightly away from the top plate (15).
- 3. A closure according to either of claims 1 or 2, wherein the surface (47) of the free end of the sealing strip (45) tapers sharply.
- 4. A closure (110) according to any preceding claim, wherein the sealing strip (145) is adapted to seal on the outer surface (180) of the neck finish.

- 5. A closure (110) according to claim 4, wherein the closure (110) further comprises a plug seal (190) adapted to seal on the inner surface (186) of the neck finish.
- 6. A closure (110) according to claim 5, wherein the plug seal (190) is adapted to exert an outward force on the neck finish (175) for causing the neck finish to move outwards, thereby increasing the strength of the seal from the sealing strip (145).
- 7. A closure (10) according to any of claims 1 to 3, wherein the sealing strip (45) is adapted to seal on the inner surface of the neck finish.
- 8. A container with a neck finish (75) in combination with a closure (10) according to any preceding claim.